



Adesilex P22TM

Premium Tile Adhesive



DESCRIPTION

Adesilex P22 is a premium-grade, ready-to-use, nonflammable, organic adhesive for setting most types of glazed and unglazed ceramic and porcelain floor/wall tiles as well as countertop/ceiling tiles for interior applications.

FEATURES AND BENEFITS

- Smooth and easy to trowel
- Excellent grab: Up to 12" x 12" (30 x 30 cm) tile
- Extended open time
- Nonslip for vertical use
- Low in odor and VOCs
- Helps contribute to LEED points

INDUSTRY STANDARDS AND APPROVALS

- ANSI: Meets or exceeds A136.1, Type 1 standards
- CGSB: Meets or exceeds 71-GP-22M, Type 1 standards
- ISO 13007: Classification D1TE
- SCAQMD: Meets requirements of Rule #1168

LEED v3 Points Contribution LEED Points

MR Credit 5, Regional Materials* Up to 2 points

IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants 1 point

IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems 1 point

** Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.*

WHERE TO USE

- For use with most types of glazed and unglazed ceramic and porcelain tiles – as well as ceramic and porcelain mosaics – for walls and floors
- For residential and light commercial interior installations of wall tiles up to 12" x 12" (30 x 30 cm) and ceiling tiles up to 6" x 6" (15 x 15 cm)
- For residential interior floor and countertop tiles up to 6" x 6" (15 x 15 cm), in dry areas only
- For tub surrounds and shower surrounds in intermittent wet conditions above a pre-cast shower base where service requirements do not exceed ANSI A136.1, Type 1 specifications

LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not use for exterior applications, steam rooms, shower floors, pools, hot tubs, fountains, water basins, gang showers or other areas subject to water immersion.*
- Do not apply over waterproofing, crack-isolation or uncoupling membranes; or over presswood, particleboard, Masonite, chipboard, oriented strand board (OSB), Luan, gypsum floor-patching compounds, metal or similar dimensionally unstable substrates.



- Use only at temperatures between 40°F and 95°F (4°C and 35°C).
- Do not use for setting bathroom fixtures or grab bars.
- Do not use to set natural stone.*

* For these installations, contact MAPEI's Technical Services Department for product recommendations.

SUITABLE SUBSTRATES

- Fully cured concrete
- Masonry block
- Cement mortars and leveling coats
- Cement backer units (CBUs) – see manufacturer's instructions for approval
- Gypsum wallboard – interior dry walls only (properly primed)
- APA or CANPLY Group 1 exterior-grade plywood for interior residential floors and countertops in dry areas only (see TCNA handbook for additional information)

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- See MAPEI's "Surface Preparation Requirements" document in the Reference & Installation Guides section of the Tile & Stone Installation Systems page on MAPEI's Website.

MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

- *Adesilex P22* is ready to use. No mixing is required.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Use a typical notched trowel (see the "Approximate Coverage" chart) with sufficient depth to ensure proper transfer, covering at least 85% of the back of the tiles.
2. Using the trowel's flat edge, spread the adhesive onto the substrate. Apply additional material and comb the adhesive in one direction using the trowel's notched side to achieve an even-setting bed. Do not spread more adhesive than can be covered with tiles within 30 to 45 minutes. If skinning occurs, scrape off the skin and replace with fresh adhesive.
3. Place tiles firmly in position on the fresh adhesive. Push the tiles back and forth in a direction perpendicular to the trowel ridges, in order to collapse the adhesive ridges and achieve maximum coverage. Ensure proper contact between the fresh adhesive, tile and substrate by periodically lifting a few tiles to check for acceptable coverage.

4. Make all alignments and adjustments immediately (do not exceed 45 minutes).
5. Promptly use water to clean smudges from the face of the tiles while the adhesive is still fresh. Once the adhesive has dried, clean with mineral spirits.

EXPANSION AND CONTROL JOINTS

Provide for expansion and control joints as specified per the TCNA handbook, Detail EJ171, or the TTMAC handbook 09.30.00, Detail 301EJ.

CLEANUP

Wash hands and tools with water while the adhesive is still fresh. If the adhesive has dried, use mineral spirits.

SETTING TIME BEFORE GROUTING

Allow tiles to reach a firm set, typically within 24 hours, and then grout with an appropriate MAPEI grout. Larger tiles such as 12" x 12" (30 x 30 cm) will take longer to set. In addition, using the adhesive with porcelain tiles or in cool, moist conditions will extend the time required for a firm set.

PROTECTION

- Protect containers from freezing in transit and storage.
- Provide for heated storage on site and deliver materials at least 24 hours before tilework begins.
- Protect from water exposure until the adhesive has reached its final set, typically from 24 to 48 hours. For shower walls, wait at least 72 hours.
- Floors: Keep free from general foot traffic for at least 72 hours after installation.
- Walls: Protect from impact, vibration and hammering on adjacent and opposite walls for at least 14 days after installation.

ISO 13007 Classification

Classification Code	Classification Requirement
D1 (normal mastic)	Tensile adhesion strength; tensile adhesion strength after aging
T (vertical slip resistance)	Slip $\leq 0.019''$ (0,5 mm)
E (extended open time)	≥ 72.5 psi (0,5 N/mm ²) after not less than 30 minutes

ANSI Specification

Test Method	Specification Standard	Test Results
ANSI A136.1 – shear strength (7 days)	Dry: ≥ 50 psi (0,34 MPa)	Pass
	Wet immersion: ≥ 50 psi (0,34 MPa)	Pass
ANSI A136.1 – shear strength (28 days)	≥ 50 psi (0,34 MPa)	Pass
ANSI A136.1 – resistance to mold growth	Will not support mold growth when tested in accordance with Section 6.4	Pass

Shelf Life and Product Characteristics (before mixing)

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
VOCs (Rule #1168 of California's SCAQMD)	60 g per L

Application Properties at 73°F (23°C) and 50% relative humidity




Open time*	30 to 45 minutes
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* Open time varies based on jobsite conditions.

Packaging

Size
Pail: 1 U.S. qt. (946 mL)
Pail: 1 U.S. gal. (3,79 L)
Pail: 5 U.S. gals. (18,9 L)

Approximate Coverage**

Typical Trowel	Per 1 U.S. qt. (946 mL)	Per 1 U.S. gal. (3,79 L)	Per 5 U.S. gals. (18,9 L)
1/8" x 1/8" x 1/8" (3 x 3 x 3 mm) for penny-round mosaic tile, and mosaic tile measuring 3/4" (19 mm) long x 1/8" (3 mm) thick 	12.5 to 17.5 sq. ft. (1,16 to 1,63 m ²)	50 to 70 sq. ft. (4,65 to 6,50 m ²)	250 to 350 sq. ft. (23,2 to 32,5 m ²)
3/16" x 5/32" (4,5 x 4 mm) for flat-backed tiles up to 4" x 4" (10 x 10 cm) 	10 to 12.5 sq. ft. (0,93 to 1,16 m ²)	40 to 50 sq. ft. (3,72 to 4,65 m ²)	200 to 250 sq. ft. (18,6 to 23,2 m ²)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) for tiles between 4" x 4" (10 x 10 cm) and 12" x 12" (30 x 30 cm) 	6.3 to 8.8 sq. ft. (0,59 to 0,82 m ²)	25 to 35 sq. ft. (2,32 to 3,25 m ²)	125 to 175 sq. ft. (11,6 to 16,3 m ²)

** Trowel dimensions are width/depth/space. Actual coverage will vary according to substrate profile and tile type.

Adesilex[™] P22



RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for Tile and Stone Installation Systems	RG0309*
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* At www.mapei.com

Refer to the SDS for specific data related to VOCs, health and safety, and handling of product.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.

ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.

We proudly support the following industry organizations:



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0-1-800-MX-MAPEI (0-1-800-696-2734)

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For the most current **BEST-BACKED[™]** product data and warranty information, visit www.mapei.com.

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